

# VS Series (Vertical-Storing) Leveler

## Specification Sheet & Submittal

**40K - 50K**  
CIR      **6' - 7'**  
WIDTH      **5' - 8'**  
LENGTH



### Standard Features

Full featured push-button control box	3" high run-off guards
Structural steel support members	10" above, 8" below dock service range (6' leveler)
Power-up and power-down control	Overhead door interlocks (dry terminal)
Free-float working range	Rear embed channel with factory installed hinges
Mechanical storage locking mechanism provides redundant safety	VB420-11 laminated dock bumpers with raised bumper brackets
Push button release of storage prop	Designed and manufactured in the USA
Dual-maintenance prop	

### General Description

Poweramp VS Series Vertical Storing dock levelers store vertically inside the building. The overhead door closes in front of the leveler substantially reducing energy loss often associated with a conventional pit style leveler. The VS Series leveler is ideal for the food industry where access and clean-up of the dock area is critical. Vertical storing levelers also act as a barrier protecting overhead doors from damage.

Poweramp's VS Series dock levelers incorporate the use of hydraulics to raise and lower both platform and lip. A multiple push button station permits independent raising of the deck, lowering of the deck, extending the lip and retracting the lip. Systems, LLC is an active member of Loading Dock Equipment Manufacturers (LODEM), a product section of the Material Handling Industry. Unit conforms to OSHA, and is manufactured in compliance with American National Standard of Safety Performance and Testing of Dock Leveling Devices (ANSI) MH 30.1. Unit manufactured by Systems, LLC.

### Standard Operation Features

Infinite control of the leveler and lip are standard with our multiple push button station. Power-up and power-down "dead man" control features enhance operator control and safety. A mechanical prop-kicker provides redundant safety while leveler is in the stored positions. Push button release of the mechanical prop-kicker is accomplished with a trombetta solenoid valve. Free float of the lever in the "working range" reduces the potential hazards associated with safely transitioning wheeled equipment with a non-floating power down system. An extended service range of 10" above dock and 8" below dock is standard on all 5' and 6' long units. A 12" above and below dock service range is available on 8' long units. 3" high run-off guards are standard on all platforms. Dual maintenance props are provided with each ramp for safe, long term, storage of ramp during installation or servicing or equipment. Factory finish includes rust inhibitive prime coat industrial grade finish. Each VS Series leveler is shipped with two (2) VB420-11, 4 1/2" thick 20" h x 11" w dock bumpers. Optional bumper risers and load distribution plates are available.

## Construction

The platform is constructed of  $\frac{1}{4}$ " thick 4-way high strength, low alloy, 50,000 minimum yield A572 steel safety treadplate. Platform is reinforced and supported by full-length structural "C" channels and wide flanged "I" beams. Front and rear header plate is  $\frac{1}{2}$ " thick, hot rolled steel. Lip plate is constructed using 4-way safety treadplate. 40,000 lb Comparative Industry Rating (CIR) are  $\frac{5}{8}$ " thick, the 45,000 and 50,000 lb CIR are  $\frac{3}{4}$ " thick. Hinge tubes are 1  $\frac{7}{8}$ " x  $\frac{3}{8}$ " wall or 2  $\frac{1}{8}$ " x  $\frac{1}{2}$ " wall with 1" M1044 steel hinge pin depending on capacity. All platforms are designed to compensate for up to 4" of canted truck beds.

## Hydraulics

A fixed displacement gear pump delivers fluid to the hoist and lip cylinder. Hydraulic system can be deck mounted or installed in remote location. Hydraulic system can also be integrated to power the vehicle restraint system if equipped. Hoist cylinder is 3.5" ID bore with anti-corrosion rod coating. Lip operation is controlled by a cylinder having a 2  $\frac{1}{2}$ " ID bore. Lip cylinder is nickel plated for extended durability. Hoist cylinder is equipped with a flow control valve which meters the decent of the ramp.

## Electrical

Electrical pump and motor are either 1  $\frac{1}{2}$  HP TENV at 120v or 208v single phase or 208v, 230v, 460v or 575v three phase. Electrical control panel is NEMA 12 enclosure. All components, connections and wiring are UL Listed or recognized.



**Please Note:** Unless specifically noted on quotation, all electrical requirements are the responsibility of others.

## Warranty

All Poweramp VS Series models feature a full one (1) year base warranty on all structural, hydraulic and electrical parts, including freight and labor charges in accordance with Systems, LLC's Standard Warranty Policy. Structural and hydraulic components carry an additional full four (4) year extended warranty with parts and labor. Systems, LLC warrants all components to be free of defects in materials and workmanship, under normal use, during the warranty period. This base warranty period begins upon the completion of installation or the sixtieth (60th) day after shipment, whichever is earlier. Additional warranty extensions may be available upon approved submittal of application information.

## Order Specifications

### Dimensions and Capacities

#### Select a Model and a Capacity

MODEL	CIR (Comparative Industry Rating)
<input type="checkbox"/> VS-65 6' x 5'	<input type="checkbox"/> 40,000 CIR
<input type="checkbox"/> VS-66 6' x 6'	<input type="checkbox"/> 45,000 CIR
<input type="checkbox"/> VS-68 6' x 8'	<input type="checkbox"/> 50,000 CIR
<input type="checkbox"/> VS-655 6'6" x 5'	
<input type="checkbox"/> VS-656 6'6" x 6'	
<input type="checkbox"/> VS-658 6'6" x 8'	
<input type="checkbox"/> VS-75 7' x 5'	
<input type="checkbox"/> VS-76 7' x 6'	
<input type="checkbox"/> VS-78 7' x 8'	

## Required Information

CUSTOMER	
JOB	
LOCATION	
NUMBER OF UNITS	
MODEL	
SIZE	
REPRESENTED BY	
SALES REP	

#### Check Options Desired

### Optional Equipment

- PowerHook® Restraint (S.C.)
- TPR® Restraint
- TPR UniLock® Restraint
- PowerStop® Restraint (manual)
- PowerStop® Restraint (auto)
- UniChock™ Restraint
- UXL Restraint
- Grease Fittings
- Light Communication System
  - Dock Alert (NEMA12)
  - iDock 1.0 Alert
  - iDock 2.0 Alert
- Integrated Control Panel
- Lip Keepers
- 18" Lip
- 20" Lip
- Deck Mounted Motor
- Remote Mounted Motor
- CentraPower
- Hoist Cylinder Embed Plate
- Gusseted Bumper Brackets with Load
- Vertical Bumpers (laminated)
  - VB420-11
  - VB424-11
- 6" Thick Dock Bumpers
- Steel Faced Dock Bumpers
- Wheel Chocks
  - Model # \_\_\_\_\_
- Dock Light (no bulb)
  - Model # \_\_\_\_\_
- Other \_\_\_\_\_
- Other \_\_\_\_\_

## Certified for Construction

BY	
DATE	
COMPANY	
CITY & STATE	
VOLTAGE / PHASE	
DRAWING #	